

IN THE SPECIFICATION

Please amend the following paragraphs in the manner indicated

Please amend the paragraph at page 24, line 24 – page 25, line 11¹ as follows

In the embodiment illustrated in FIG. 5, the carbon trim cell 40 is shown separate from the thermochemical apparatus 10. In other embodiments, however, the carbon trim cell 40 may be internal to the apparatus 10. For example, referring to FIG. 6, an alternative embodiment of a steam reforming system containing a carbon trim cell 40 is shown. In this embodiment, the fluidized bed drain nozzle 40, which is located below the fluidized bed 14, may itself be converted into a fluidized bed or fixed bed carbon trim cell. For example, the bed drain nozzle of the fluidized bed 14 may be made tapered and having a length to accommodate greater amounts of material. In one embodiment, for instance, as shown in FIG. 6, the bed drain nozzle may have a shape that is similar to an inverted frustum of a cone with a shallow angle to the vertical. A gaseous medium comprising a mixture of steam and an oxygen containing gas may be fed to the bed drain nozzle 40 causing carbon oxidation and steam reforming to occur before the bed material is extracted from the bottom of the fluidized bed 14. More particularly, the gaseous medium is fed through the bed drain nozzle 40 and into the bottom portion of the fluidized bed 14 where it gasifies carbon particles. Due to carbon oxidation, the temperature of the bed drain nozzle 40 may increase to greater than about 1200 degrees F., such as when processing spent black liquor. More particularly, the temperature of the bed drain nozzle 40 may increase to from about 1200 degrees F. to about 1275 degrees F. while the temperature of the fluidized bed 14 is maintained below 1200 degrees F. In general, the bed drain nozzle 40 as shown in FIG. 6 may operate according to the same parameters discussed above with respect to the fluidized bed 40 as shown in FIG. 5.

¹ This is paragraph [0110] in Published U.S. Patent Application 2004/0182000A1, published Sept 23, 2004.